PATENT COOPERATION TRE

From the

INTERNATIONAL PRELIMI RY EXAMINING

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PCT

WRITTEN OPINION

(PCT Rule 66)

Date of mailing (day/month/year) REPLY DUE

05 OCTOBER 2004 (05.10.2004)

Applicant's or agent's file reference

PCT/KR2003/001949

International application No.

SH-18951-PCT

the above date of mailing

within 2

International filing date (day/month/year) Priority date(day/month/year) 24 SEPTEMBER 2003 (24.09.2003)

26 SEPTEMBER 2002 (26.09.2002)

months

from

International Patent Classification (IPC) or both national classification and IPC

IPC7 G11B 5/62

Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

t.	This written opinion is the first (first,etc.) drawn by this International Preliminary Examining Authority.					
2.	This opinion contains indications relating to the following items:					
	I Basis of the opinion					
II Priority						
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of invention						
Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
3.	The applicant is hereby invited to reply to this opinion.					
	When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d)					
	How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3					
	For the form and the language of the amendments, see Rules 66.8 and 66.9					
	Also For an additional opportunity to submit amendments, see Rule 66.4					
	For an examiner's obligation to consider amendments and/or arguments, seeRule 66.4bis					
For an informal communication with the examiner, see Rule 66.6						
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.						
4.	The final date by which the international preliminary					
examination report must be established according to Rule 69.2 is: 16 JANUARY 2005 (16.01.2005)						

Name and mailing address of the IPEA/KR



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Authorized officer

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Telephone No. 82-42-481-5698





	
International application No.	
CT/KR2003/001949	

I.	I. Basis of the opinion						
1.	With	regard to	o the elements of the international application:*				
	the international application as originally filed						
		the desc	ription:				
		pages _	, as originally filed				
l		pages pages	, filed with the letter of				
		the clain					
		pages	, as originally filed				
		pages	, as amended (together with any statment) under Article 19				
		pages	, filed with the demand				
		pages	, filed with the letter of				
		the draw					
		pages pages					
		pages	, filed with the letter of				
		the sequ	nence listing part of the description:				
		pages _					
		pages pages	, filed with the letter of				
		p-g-	, mos min de lone of				
2.	the in	internatio	to the language, all the elements marked above were available or furnished to this Authority in the language in which onal application was filed, unless otherwise indicated under this item. ents were available or furnished to this Authority in the following language which is				
3.		the lan the lan or 55.3 regard on on the contair filed to furnish furnish The st interna	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)). guage of publication of the international application(under Rule 48.3(b)). guage of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/s). to any nucleotide and/or amino acid sequence disclosed in the international application, the written opinion was basis of the sequence listing: ned inthe international application in printed form. ogether with the international application in computer readable form. ned subsequently to this Authority in written form. ned subsequently to this Authority in computer readable form attement that the subsequently furnished written sequence listing does not go beyond the disclosure in the attonal applicationas as filed has been furinshed. attement that the information recorded in computer readable form is identical to the written sequence listing has				
4.		been f	runished. nendments have resulted in the cancellation of:				
			he description, pages				
		i	he claims, Nos.				
5.		:	he drawings,sheet/fig				
			opinion has been drawn as if (some of) the amendments had not been made, since they have been considered to go d the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).				
*			sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to a s "originally filed."				

WRITTEN OPINION



V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial appl	licability;
citations and explanations supporting such statement	

1.	Statement			
	Novelty (N)	Claims	1-5	YES
		Claims		NO
	Inventive step (IS)	Claims	2-5	YES
		Claims	1	NO
	Industrial applicability (IA)	Claims	1-5	YES
		Claims		NO

2. Citations and explanations

Reference is made to the following document:

Us.

D: US 2002-0154596 A1 (Wei-Chin Hsu et al.) 24 Oct. 2002

1. Novelty and Inventive Step

The subject matter of Claims 1-5 of the present invention discloses a high density recording medium with a super-resolution near-field structure including a sequential stack of a second dielectric layer, a recording layer, a protective layer, a mask layer, a first dielectric layer and a polycarbonate layer, wherein the mask layer comprises high melting point metal oxide or silicon oxide.

D describes a super-resolution recordable optical disk forming sequentially on the substrate under a dielectric layer, a mask layer, an interface layer, an organic dye layer, an isolation layer and a protection layer.

The subject matter of the present invention (Claim 1) and D have the same structure of a recording medium using a super-resolution near-field structure. The only difference lies in that the present invention (Claim 1) has a mask layer comprising high melting point metal oxide or silicon oxide. But the difference does not involve any technical difficulties for a person skilled in the art.

Therefore, the subject matter of Claim 1 is considered to be novel, but it does not have an inventive step(Article 33(2)-(3) PCT).

2. Industrial Applicability

Claims 1-5 of the present invention meet the criteria set out in PCT Article 33(4) because they are directed to a high density recording medium. Therefore, the invention is considered to be industrially applicable.